May 19, 2004

Hazardous, Toxic and Radioactive Waste
Center of Expertise

Dan Elwood
CT Laboratories
1230 Lange Court
Baraboo, WI 53913

Dear Mr. Elwood:

This correspondence addresses the ongoing validation status of CT Laboratories of Baraboo, WI for the U.S. Army Corps of Engineers (USACE) for chemical analysis in support of the USACE Hazardous, Toxic and Radioactive Waste Program, by the addition of PAHs by Method 8310.

Your laboratory is now validated for the parameters listed below:

METHOD[1]	PARAMETERS	MATRIX[2]
300.0/9056	Anions[6]	Water[3]
300.0/9056	Anions[6]	Solids[8]
9012A	Cyanide	Water[3]
9012A	Cyanide	Solid[3]
3535/8330	Explosives	Water
8330	Explosives	Solids[3]
3510C/8081A	Organochlorine Pesticides	Water[3]
3545/8081A	Organochlorine Pesticides	Solids[8]
3510C/8082	Polychlorinated Biphenyls	Water[3]
3545/8082	Polychlorinated Biphenyls	Solids[3]
3510C/8270C	Semivolatile Organics	Water[3]
3545/8270C	Semivolatile Organics	Solids[3]
3510C/8310	PAHs	Water[3]
3545/8310	PAHs	Solids[3]
3005A/3010A/3020A/6010B/7000A Series[5]	TAL Metals[4]	Water[3]
3050B/6010B/7000A Series[5]	TAL Metals[4]	Solids[3, 8]

5030B/Mod 8015	TPH – GRO	Water[3]
5035/Mod 8015	TPH – GRO[7]	Solids[3]
3510C/Mod 8015	TPH – DRO	Water[3]
3545/Mod 8015	TPH – DRO	Solids[3]
7196A	Hexavalent Chromium	Water[3]
3060A/7196A	Hexavalent Chromium	Solids[3]
5030B/8260B	Volatile Organics	Water[3]
5035/8260B	Volatile Organics	Solids[3]

Remarks:

1) Sample preparation methods have been added to reflect program policy change.

2) 'Solids' includes soils, sediments, and solid waste.

3) The laboratory has successfully analyzed a Proficiency Testing (PT) sample for this method/matrix.

4) TAL Metals: Aluminum, antimony, arsenic, barium, beryllium, cadmium, calcium, chromium, cobalt, copper, iron, lead, magnesium, manganese, mercury, nickel, potassium, selenium, silver, sodium, thallium, vanadium, and zinc.

5) Laboratory is validated for 7000A GF-AA analyses for Sb, As, Pb, Se and Tl in water and Se and Ag in soil; 6010B for TAL metals except mercury; and 7470A and 7471A for mercury in water and soil, respectively.

6) Anions: Chloride, fluoride, sulfate, nitrate, nitrite, ortho-phosphate, and bromide.

7) Approval is for medium level (methanol extraction) method only. Approval is limited for work contracted for Louisville District projects.

8) PT results for 8081A in soil, 7000A GF-AA for Ag and Se in soil, and anions by 9056/300.0 in soil will be submitted for evaluation when they become available.

Based on the successful analysis of the National Environmental Laboratory Accreditation Conference Proficiency Testing samples for the appropriate fields of testing, the results of the laboratory inspection, and your Corrective Action Report, your laboratory will be validated for sample analysis by the methods listed above. The evaluation, which was conducted for your facility, is based substantially on ISO Guide 25 (General Requirements for the Competence of Testing Laboratories) and USACE Engineering Manual (EM) 200-1-3, Appendix I (Shell for Analytical Chemistry Requirements). The period of validation has been previously established and expires on December 22, 2005.

The USACE reserves the right to conduct additional laboratory inspections or to suspend validation status for any or all of the listed parameters if deemed necessary. It should be noted that your laboratory may not subcontract USACE analytical work to any other laboratory location without the approval of this office. This laboratory validation does not guarantee the delivery of any analytical samples from a USACE Contracting Officer Representative.

Any questions or comments can be directed to Thomas Georgian at (402) 697-2567. General questions regarding laboratory validation may be directed to the Laboratory Validation Coordinator at (402) 697-2574.

Sincerely,

Marcia C. Davies, Ph.D.
Director, USACE Hazardous,
Toxic and Radioactive Waste
Center of Expertise